## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 24 February 2005 (24.02.2005)

PCT

## (10) International Publication Number WO 2005/017232 A1

(51) International Patent Classification7: C01B 3/02, 3/10

C25B 1/04,

(21) International Application Number:

PCT/AU2004/001080

(22) International Filing Date: 12 August 2004 (12.08.2004)

(25) Filing Language:

(26) Publication Language:

English

(30) Priority Data: 2003904338

15 August 2003 (15.08.2003)

- (71) Applicant (for all designated States except US): PRO-TEGY LIMITED [GB/AU]; 2/27 Hooker Boulevard. Broadbeach Waters, Queensland 4218 (AU).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): MITCHELL, Allan [GB/AU]; 2/27 Hooker Boulevard, Broadbeach Waters, Queensland 4218 (AU). WILL, Geoffrey David [US/AU]; c-/ QUT, 2 George Street, Brisbane, Queensland 4001 (AU).
- (74) Agent: CULLEN & CO.; Level 26, 239 George Street, Brisbane, Queensland 4000 (AU).

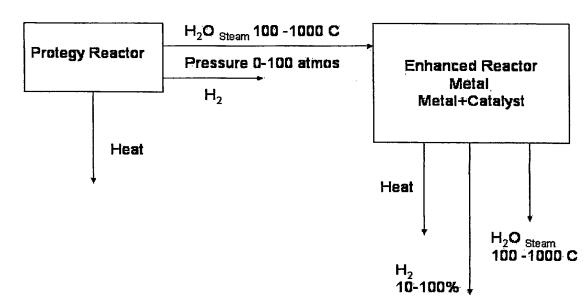
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN. CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ENHANCED ENERGY PRODUCTION SYSTEM



(57) Abstract: An enhanced energy production system having the step of introducing steam at elevated temperature and a positive pressure into an enhanced reactor, wherein a portion of the energy added to the reactor system by the addition of the steam is used by reaction systems in the reactor to increase the number of dissociated H<sub>2</sub>O molecules at or near a reactive or catalytic surface.

